

WHAT IS CLAIMED IS:

1 1. A medical method, comprising:
2 providing an implantable therapeutic device (ITD) configured to measure a
3 primary parameter indicative of an aberrant heart rhythm and to deliver a therapy to correct
4 the aberrant heart rhythm;
5 providing an implantable sensing device (ISD) configured to
6 measure a secondary parameter indicative of the aberrant heart rhythm;
7 implanting the ITD and ISD in a patient;
8 connecting the ITD and ISD; and
9 operating the ITD as a function of the measured primary parameter and the
10 measured secondary parameter.

1 2. A medical method as in claim 1, wherein the step of operating the ITD
2 comprises delivering therapy if and only if both the measured primary parameter and the
3 measured secondary parameter are indicative of an aberrant heart rhythm.

1 3. A medical method as in claim 2, wherein the primary parameter
2 comprises ECG.

1 4. A medical method as in claim 3, wherein the secondary parameter
2 comprises vascular pressure.

1 5. A medical method as in claim 3, wherein the secondary parameter
2 comprises vascular flow.

1 6. A medical method as in claim 3, wherein the secondary parameter
2 comprises intracardiac pressure.

1 7. A medical method as in claim 3, wherein the secondary parameter
2 comprises tissue perfusion.

1 8. An implantable system, comprising:
2 an implantable therapeutic device (ITD) configured to measure a primary
3 parameter indicative of an aberrant heart rhythm and to deliver a therapy to correct the
4 aberrant heart rhythm;

5 an implantable sensing device (ISD) configured to measure a secondary
6 parameter indicative of the aberrant heart rhythm, the ISD connected to the ITD;
7 wherein the ITD includes an algorithm that dictates the delivery of the therapy
8 if and only if both the measured primary parameter and the measured secondary parameter
9 are indicative of an aberrant heart rhythm.

1 9. An implantable system as in claim 8, wherein the ITD is configured to
2 measure ECG as the primary parameter.

1 10. An implantable system as in claim 9, wherein ISD is configured to
2 measure vascular pressure as the secondary parameter.

1 11. An implantable system as in claim 9, wherein ISD is configured to
2 measure vascular flow as the secondary parameter.

1 12. An implantable system as in claim 9, wherein ISD is configured to
2 measure intracardiac pressure as the secondary parameter.

1 13. An implantable system as in claim 9, wherein ISD is configured to
2 measure tissue perfusion as the secondary parameter.

1 14. An implantable therapeutic device (ITD) configured to measure a
2 primary parameter indicative of an aberrant heart rhythm and to deliver a therapy to correct
3 the aberrant heart rhythm the ITD configured for connection to an implantable sensing device
4 (ISD) configured to measure a secondary parameter indicative of the aberrant heart rhythm,
5 wherein the ITD includes an algorithm that dictates the delivery of the therapy if and only if
6 both the measured primary parameter and the measured secondary parameter are indicative of
7 an aberrant heart rhythm.